



GTech Learn

"Our focus is your Success"



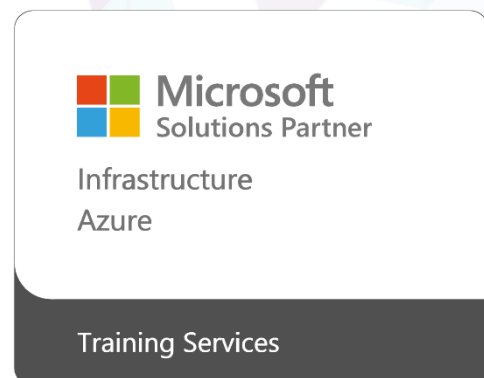
Course Contents

AZ-305: Designing Microsoft Azure Infrastructure Solutions

Duration: 4 Days	Level: Advanced	Role: Solution Architect
Certification: Available	Public Schedules: View Dates	Private Delivery: Reach Us

What's included?

- ✓ Learn from Microsoft Certified Trainer (MCT's)
- ✓ 24x7 Lab Access
- ✓ Official Courseware
- ✓ Exam Preps / Practice Tests
- ✓ Badges & Completion Certificate
- ✓ Discounted Exam Vouchers



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Overview

This course teaches Azure Solution Architects how to design infrastructure solutions. Course topics cover governance, compute, application architecture, storage, data integration, authentication, networks, business continuity, and migrations. The course combines lecture with case studies to demonstrate basic architect design principles.

Audience Profile

Successful students have experience and knowledge in IT operations, including networking, virtualization, identity, security, business continuity, disaster recovery, data platforms, and governance. Students also have experience designing and architecting solutions.

Before attending this course, students must have previous experience deploying or administering Azure resources and strong conceptual knowledge of:

- Azure compute technologies such as VMs, containers and serverless solutions
- Azure virtual networking to include load balancers
- Azure Storage technologies (unstructured and databases)
- General application design concepts such as messaging and high availability

Contents

Learning path 1: Design a governance solution

- Design for governance
- Design for management groups
- Design for Azure subscriptions
- Design for resource groups
- Design for resource tagging
- Design for Azure Policy and RBAC
- Design for Azure Landing Zones
- Case study

Learning Path 2: Design a compute solution

- Choose a compute service
- Design for Azure virtual machine solutions
- Design for Azure Batch solutions
- Design for Azure App Services solutions
- Design for Azure Container Instances solutions
- Design for Azure Kubernetes Service solutions

- Design for Azure Function solutions
- Design for Azure Logic App solutions
- Case study

Learning Path 3: Design a non-relational data storage solution

- Design for data storage
- Design for Azure storage accounts
- Design for data redundancy
- Design for Azure blob storage
- Design for Azure files
- Design an Azure disk solutions
- Design for storage security
- Case study

Learning Path 4: Design a data storage solution for relational data

- Design for data storage
- Design for Azure SQL databases
- Recommend a solution for database scalability
- Recommend a solution for database availability
- Design security for data at rest, data in transmission, and data in use
- Design for Azure SQL Edge
- Design for Azure Cosmos DB and tables
- Case study

Learning Path 5: Design a data integration solution

- Design a data integration solution with Azure Data Factory
- Design a data integration solution with Azure Data Lake
- Design a data integration and analytics solution with Azure Databricks
- Design a data integration and analytics solution with Azure Synapse Analytics
- Design Azure Stream Analytics solution for Data Analysis
- Design a strategy for hot/warm/cold data path
- Case study

Learning Path 6: Design an application architecture solution

- Describe message and event scenarios
- Design a messaging solution
- Design an event solution (Event Hub and Event Grid)

- Design an application optimization solution
- Design application lifecycle
- Case study

Learning Path 7: Design Authentication and Authorization Solutions

- Design for identity and access management
- Design for Microsoft Entra ID
- Design for Microsoft Entra B2B
- Design for Azure Active Directory B2C
- Design for conditional access
- Design for identity protection
- Design for access reviews
- Design service principals for applications
- Design for Azure key vault
- Case study

Learning Path 8: Design a solution to log and monitor Azure resources

- Design for Azure Monitor data sources
- Design for Log Analytics
- Design for Azure workbooks and Azure Insights
- Design for Azure Data Explorer
- Case study

Learning Path 9: Design a network infrastructure solution

- Recommend a network architecture solution based on workload requirements
- Design for Azure network connectivity services
- Design for on-premises connectivity to Azure virtual networks
- Design for application delivery services
- Design for application protection services
- Case study

Learning Path 10: Design a business continuity solution

- Design for backup and recovery
- Design for Azure Backup
- Design for Azure blob backup and recovery
- Design for Azure Files backup and recovery
- Design for Azure virtual machine backup and recovery

- Design for Azure SQL backup and recovery
- Design for Azure Site Recovery

Learning Path 11: Design a migration solution

- Evaluate migration with the Cloud Adoption Framework
- Describe the Azure Migration Framework
- Assess your workloads
- Compare migration tools
- Migrate your databases
- Select an online storage migration tool
- Select an offline storage migration tool

About GTech Learn

Established in 2011 in the USA, GTech Learn is one of the leading IT training organizations in North America & South East Asia. Driven by its unique USPs, GTech Learn is spurring competition, meeting the unmet needs of customers, assisting in skills upgrade, and supplementing talent pools with its presence in the USA, Canada, Singapore and India. This is consistent with our vision to help our Learners with skills upgrade for enhanced career opportunities.







As a Microsoft Learning Partner, we offer a broad range of learning solutions across the full Microsoft technology stack that can be customized.

Since 2011, GTech Learn has been developing custom-fit learning solutions that involve creating and delivering maximum results.

We have successfully helped all types of businesses, government entities, and individuals. For this reason, GTech has chosen by Microsoft to deliver comprehensive learning programs around the globe.

With flexible learning options, state-of-the-art delivery methods, numerous language preferences, experienced instructors, and complete dedication to our students, GTech Learn has the capabilities to help students develop their Microsoft skill sets and achieve increasingly high standards of productivity while organizations of all sizes realize the full potential of their technology investments.

Our Accreditations with Microsoft

 Security Training Services	 Modern Work Training Services	 Business Applications Training Services
 Infrastructure Azure Training Services	 Digital & App Innovation Azure Training Services	 Data & AI Azure Training Services